

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Patent of:

Salvatore Fabrizio CONSOLI et al.

**ATTN: Certificates of Correction**

Patent Number: US 7,534,278 B2

Issued: May 19, 2009

Attorney Docket No.: 023349-00311

For: GRANULATOR DEVICE FOR THE TREATMENT OF POWERED PRODUCTS

**REQUEST FOR CERTIFICATE OF CORRECTION**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

June 30, 2009

Sir:

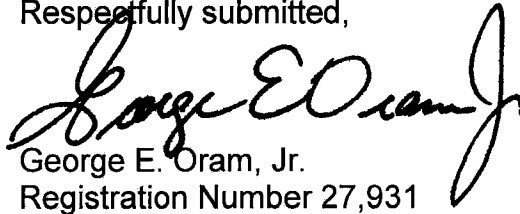
The undersigned respectfully requests that a Certificate of Correction be issued for the above-identified patent as indicated on the attached Form PTO 1050.

**REMARKS**

This request is being made in order to correct errors noted in the title page of the above-identified patent. In support of this request, enclosed is a copy of the Declaration For U.S. Patent Application. Also enclosed is a copy of the title page of the Letters Patent document showing the requested change.

Since the errors in the patent appear to be U.S. Patent and Trademark Office printing errors, it is respectfully submitted that no fee is required. However, in the event that any fees are due with respect to this paper, please charge Counsel's Deposit Account Number 01-2300, referencing Attorney Docket Number 023349-00311.

Respectfully submitted,



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GEO:ars

Enclosures: Form PTO 1050 (2)  
Title Page of Letters Patent Document (copy)  
Declaration For U.S. Patent Application (copy)

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO.: US 7,534,278 B2

DATED : May 19, 2009

INVENTOR(S): Salvatore Fabrizio CONSOLI et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page:

Item (30), please change the Foreign Application Priority Data to read:

-- **August 7, 2003** (IT) ..... **BO2003A0486** --

MAILING ADDRESS OF SENDER:

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Patent No. US 7,534,278 B2

No. of add'l. copies  
@ 304 per page

# Declaration For U.S. Patent Application

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled  
(Insert Title) A granulator device for the treatment of powdered products.

the specification of which is attached hereto unless the following box is checked:

☒ was filed on August 2, 2004 As PCT International Application  
Number PCT/IB2004/002551 and was amended on \_\_\_\_\_  
And/or was filed on \_\_\_\_\_ As United States Application  
Number \_\_\_\_\_ and was amended on \_\_\_\_\_

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56.

I hereby claim foreign priority benefits under 35 U.S.C. §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate or PCT International Application having a filing date before that of the application(s) for which priority is claimed:

|                                   |                                  |                           |   |   |
|-----------------------------------|----------------------------------|---------------------------|---|---|
| (List prior foreign applications) | <u>BO2003A000486</u><br>(Number) | <u>ITALY</u><br>(Country) | <u>07/08/2003</u><br>(Day/Month/Year Filed) | Priority Claimed<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
|                                   | _____<br>(Number)                | _____<br>(Country)        | _____<br>(Day/Month/Year Filed)             | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
|                                   | _____<br>(Number)                | _____<br>(Country)        | _____<br>(Day/Month/Year Filed)             | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below.

|                               |                        |
|-------------------------------|------------------------|
| _____<br>(Application Number) | _____<br>(Filing Date) |
| _____<br>(Application Number) | _____<br>(Filing Date) |

☐ See attached list for additional prior foreign or provisional applications.

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) or §365(c) of any PCT International application(s) designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior application(s) (U.S. or PCT) in the manner provided by the first paragraph of 35, U.S.C. §112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

|   |                                   |                        |  |
|---|-----------------------------------|------------------------|--|
| (List prior U.S. Applications or PCT International applications designating the U.S.) | _____<br>(Application Serial No.) | _____<br>(Filing Date) | _____<br>(Status) (patented, pending, abandoned) |
|   | _____<br>(Application Serial No.) | _____<br>(Filing Date) | _____<br>(Status) (patented, pending, abandoned) |

And I hereby appoint the firm of Arent Fox, Customer Number **004372**, including at least the following registered practitioners, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith as follows:

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**Murphy, Christopher, Reg. No. 39,786**

**Oram, George E., Jr., Reg. No. 27,931**

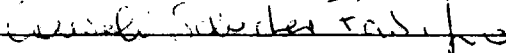
**and other registered practitioners associated with Customer Number 004372**

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The undersigned hereby authorizes the U.S. attorneys named herein to accept and follow instructions from the undersigned's assignee, if any, and/or, if the undersigned is not a resident of the United States, the undersigned's domestic attorney, patent attorney or patent agent, as to any action to be taken in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorneys and the undersigned. In the event of a change in the person(s) from whom instructions may be taken, the U.S. attorneys named herein will be so notified by the undersigned.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Inventor's signature  January 27, 2006  
Date

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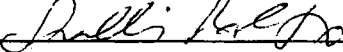
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Full name of fifth inventor \_\_\_\_\_

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Full name of sixth inventor \_\_\_\_\_

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US007534278B2

(12) **United States Patent**  
**Consoli et al.**

(10) **Patent No.:** **US 7,534,278 B2**  
(45) **Date of Patent:** **May 19, 2009**

(54) **GRANULATOR DEVICE FOR THE  
TREATMENT OF POWDERED PRODUCTS**

(75) Inventors: **Salvatore Fabrizio Consoli**, Bologna  
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(73) Assignee: **I.M.A. Industria Macchine  
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(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 528 days.

(21) Appl. No.: **10/567,094**

(22) PCT Filed: **Aug. 2, 2004**

(86) PCT No.: **PCT/IB2004/002551**

§ 371 (c)(1),

(2), (4) Date: **Feb. 3, 2006**

(87) PCT Pub. No.: **WO2005/014159**

PCT Pub. Date: **Feb. 17, 2005**

(65) **Prior Publication Data**

US 2008/0148944 A1 Jun. 26, 2008

(30) **Foreign Application Priority Data**

Jul. 8, 2003 (IT) ..... **BO2003A0486**

(51) **Int. Cl.**  
**B01D 46/04** (2006.01)

(52) **U.S. Cl.** ..... **55/302; 55/294; 95/280;**  
95/281; 96/233; 96/229; 96/230

(58) **Field of Classification Search** ..... **55/302,**  
55/294; 96/233, 229, 230; 95/280–281

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

3,443,696 A \* 5/1969 Schutte ..... 210/297  
5,114,444 A \* 5/1992 Stuble ..... 55/294  
5,444,892 A 8/1995 Ris et al.

**FOREIGN PATENT DOCUMENTS**

FR 2 304 386 10/1976

\* cited by examiner

*Primary Examiner*—Duane S Smith

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(74) *Attorney, Agent, or Firm*—Arent Fox LLP

(57) **ABSTRACT**

A granulator device (101) for the treatment of powdered products comprises a closed container (102) forming a chamber (103) for treatment of the products, filter elements (104, 105) projecting into the treatment chamber (103), the filter elements comprising a multi-layer filtering wall (105) through which a fluid current can pass, and powder removing parts (106; 107, 108, 109, 110) designed to diffuse at least one service fluid directed towards at least the filtering wall (105); the powder removing parts (106; 107, 108, 109, 110) having at least first diffuser nozzles (107) and at least second diffuser nozzles (108) to diffuse the service fluid so as to free the filtering wall (105) of the powders trapped in it; there also being parts (140, 142, 147) for supporting and driving the filter elements (104, 105) which can change the angle of the filter elements (104, 105) from a first operating position, in which at least the first nozzles (107) act on the filtering wall (105), to a second operating position in which the filter elements (104) are set at an angle to the first operating position to allow the second diffuser nozzles (108) to operate on the filtering wall (105).

**16 Claims, 3 Drawing Sheets**

